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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/966,200	09/27/2001	Vijay Seetharaman	JP920000317US1	4431

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EXAMINER
ARAQUE JR, GERARDO

ART UNIT	PAPER NUMBER
3629	

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05/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	09/966,200	SEETHARAMAN ET AL.
Office Action Summary	Examiner	Art Unit	
	Gerardo Araque Jr.	3629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>12 February 2007</u>.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1-18</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>1-18</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application

6)☐ Other: _____ .

DETAILED ACTION

Specification

1.　　The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 103

2.　　The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3.　　**Claims 1 – 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Beckett et al. (US Patent 6,564,368 B1).**

4.　　In regards to **claim 1**, **Beckett** discloses a method of developing a computer system, comprising the computer-implemented steps of:

defining a first interface associated with a proposed view sub-system and with a proposed business logic sub-system, wherein the proposed view sub-system and the proposed business logic sub-system interact only via the first interface **(Column 1 Lines 24 – 30, 44 - 47; Column 3 Lines 1 – 12, 44 - 47)**;

defining a second interface associated with a proposed handler sub-system and with the proposed business logic sub-system, wherein the proposed handler sub-

system and the proposed business logic sub-system interact only via the second

interface **(Column 1 Lines 24 – 30, 44 - 47; Column 3 Lines 1 – 12, 44 - 47)**;

wherein the proposed view sub-system, the proposed business logic sub-system,

and the proposed handler sub-system are all isolated from each other **(Column 1 Lines**

44 – 47; Column 3 Lines 1 – 12, 44 - 47);

creating the proposed view sub-system in accord with the first interface **(Column**

6 Lines 20 – 27); and

creating the proposed handler sub-system in accord with the second interface

(Column 6 Lines 20 – 27).

Becket, however, fails to explicitly state the exact arrangement of 3 sub-systems

with interfaces between each sub-system.

However, Becket does disclose that multiple interfaces can be used to connect

multiple objects and that one of ordinary skill in the art would know that there are

numerous ways of connecting the sub-systems **(Column 6 Lines 20 – 27; Column 8**

Lines 23 – 27). Moreover, it would have been obvious that the sub-systems would be

isolated from each other when an interface is placed between them. Further still, it

would be obvious that the sub-systems would be in accord with their respected

interfaces in order to avoid compatibility issues.

Therefore, it would have been obvious to one having ordinary skill in the art at

the time of the invention that using the teachings of Beckett **(specifically Col. 6 L. 20 –**

27 & Col. 8 L. 23 – 27) the industry is assured the rapid, high-quality construction of

products.

5.   In regard to **claims 2 – 4**, **Beckett** discloses that multiple sub-systems with their

respected interfaces can be used, as already discussed above.

6.   In regards to **claim 5**, **Beckett** discloses wherein:

the first interface defines a plurality of methods for data storage and retrieval that

are implemented in the business logic sub-system **(Column 6 Lines 34 – 55)**.

7.   In regards to **claim 6**, **Beckett** discloses wherein:

the second interface defines a plurality of methods of business logic that are

implemented in the business logic sub-system **(Column 6 Lines 34 – 55)**.

8.   In regards to **claim 7**, **Beckett** discloses wherein:

the third interface is a listener interface that defines a plurality of methods in the

handler sub-system which respond to actions in the view sub-system **(Column 10**

Lines 48 – 60).

9.   In regards to **claim 8**, **Beckett** discloses wherein:

the fourth interface defines a plurality of methods which are implemented in the

view sub-system for use by the handler sub-system **(Column 6 Lines 34 – 55)**.

10.   In regards to **claim 9**, **Beckett** discloses wherein:

the view sub-system includes a plurality of user interface objects **(Column 1**

Lines 30 – 37; Column 3 Lines 1 – 8; 42 – 50);

the handler sub-system includes a plurality of use case control objects **(Column**

1 Lines 30 – 37; Column 3 Lines 1 – 8; 42 – 50); and

the business sub-system includes a plurality of business logic objects **(Column 1**

Lines 30 – 37; Column 3 Lines 1 – 8; 42 – 50).

11.   In regards to **claim 10**, **Beckett** discloses wherein:

the sub-systems are created substantially independently of each other once the

interfaces have been defined **(discussed above)**.

12.   In regards to **claim 11**, **Beckett** discloses a computer software system in a

computer readable medium, said system comprising:

first instructions defining a view sub-system including presentation objects which

provide a user interface **(Column 3 Lines 44 - 47)**;

second instructions defining a business logic sub-system including use case

objects which hold business data and implement business functions **(Column 3 Lines**

44 - 47);

third instructions defining a handler sub-system including controller objects which

control actions of the view sub-system and actions of the business logic sub-system

(Column 3 Lines 44 - 47);

fourth instructions defining a data interface only through which the view sub-

system obtains business data for the presentation objects **(Column 1 Lines 24 – 30, 44**

- 47; Column 3 Lines 1 – 12, 44 - 47); and

fifth instructions defining a business interface only through which the handler

sub-system invokes business functions **(Column 1 Lines 24 – 30, 44 - 47; Column 3**

Lines 1 – 12, 44 - 47).

Becket, however, fails to explicitly state the exact arrangement of 3 sub-systems

with interfaces between each sub-system.

However, Becket does disclose that multiple interfaces can be used to connect multiple objects and that one of ordinary skill in the art would know that there are numerous ways of connecting the sub-systems **(Column 6 Lines 20 – 27; Column 8 Lines 23 – 27)**. Moreover, it would have been obvious that the sub-systems would be isolated from each other when an interface is placed between them. Further still, it would be obvious that the sub-systems would be in accord with their respected interfaces in order to avoid compatibility issues.

Therefore, it would have been obvious to one having ordinary skill in the art at the time of the invention that using the teachings of Beckett **(specifically Col. 6 L 20 – 27 & Col. 8 L 23 – 27)** the industry is assured the rapid, high-quality construction of products.

13.   In regards to **claim 12, Beckett** discloses sixth instructions defining a listener interface through which the handler sub-system responds to events in the user interface **(Column 10 Lines 48 – 60)**.

14.   In regards to **claim 13, Beckett** discloses sixth instructions defining a view actions interface through which the handler sub-system invokes actions in the user interface **(Column 1 Lines 30 – 37; Column 3 Lines 1 – 8; 42 – 50; Column 10 Lines 48 – 60)**.

15.   In regards to **claim 14, Beckett** discloses a computer program in a computer readable medium, said program comprising:

first instructions defining at least one view object including presentation objects which provide a user interface **(Column 3 Lines 44 - 47)**;

second instructions defining at least one business logic object holding business

data and implementing business functions **(Column 3 Lines 44 - 47)**;

third instructions defining at least one handler object which controls actions of at

least one of the view objects and actions of at least one of the business logic objects

(Column 3 Lines 44 - 47);

fourth instructions defining a data interface only through which the at least one

view object obtains business data for the presentation objects **(Column 1 Lines 24 –**

30, 44 - 47; Column 3 Lines 1 – 12, 44 - 47); and

fifth instructions defining a business interface only through which the at least one

handler object invokes business functions **(Column 1 Lines 24 – 30, 44 - 47; Column**

3 Lines 1 – 12, 44 - 47).

Becket, however, fails to explicitly state the exact arrangement of 3 sub-systems

with interfaces between each sub-system.

However, Becket does disclose that multiple interfaces can be used to connect

multiple objects and that one of ordinary skill in the art would know that there are

numerous ways of connecting the sub-systems **(Column 6 Lines 20 – 27; Column 8**

Lines 23 – 27). Moreover, it would have been obvious that the sub-systems would be

isolated from each other when an interface is placed between them. Further still, it

would be obvious that the sub-systems would be in accord with their respected

interfaces in order to avoid compatibility issues.

Therefore, it would have been obvious to one having ordinary skill in the art at

the time of the invention that using the teachings of Beckett **(specifically Col. 6 L 20 –**

27 & Col. 8 L 23 – 27) the industry is assured the rapid, high-quality construction of

products.

16.   In regards to **claim 15, Beckett** discloses sixth instructions defining a listener

interface through which the handler object responds to events in the user interface

(Column 10 Lines 48 – 60).

17.   In regards to **claim 16, Beckett** discloses sixth instructions defining a view action

interface through which the handler object invokes actions in the user interface

(Column 1 Lines 30 – 37; Column 3 Lines 1 – 8; 42 – 50; Column 10 Lines 48 – 60).

18.   In regards to **claim 17, Beckett** discloses sixth instructions for further defining

the view sub-system, the business logic sub-system, and the handler sub-system such

that each sub-system is isolated from another sub-system **(Column 1 Lines 44 – 47;**

Column 3 Lines 1 – 12, 44 - 47).

19.   In regards to **claim 18, Beckett** discloses sixth instructions for further defining

the view sub-system, the business logic sub-system, and the handler sub-system such

that each sub-system is isolated from another sub-system **(Column 1 Lines 44 – 47;**

Column 3 Lines 1 – 12, 44 - 47).

Response to Arguments

20.   Applicant's arguments filed 2/12/07 have been fully considered but they are not

persuasive.

Rejection under 35 USC § 112, second paragraph

21.   Rejections made under 35 USC § 112, second paragraph, have been withdrawn

due to amendments.

Rejection under 35 USC § 103

22.   Applicants argue that Beckett does not teach, "defining a first interface associated with a proposed view sub-system and with a proposed logic sub-system, wherein the proposed view sub-system and the proposed business logic sub-system interact only via the first interface and defining a second interface associated with a proposed handler sub-system and with the proposed logic sub-system, wherein the proposed handler sub-system and the proposed business logic sub-system interact only via the second interface." As a further note, the Examiner understands the applicant's invention to only be various interfaces with various sub-systems, or objects, wherein each interface contains a type of sub-system and that each sub-system is isolated from one another. The sub-systems use their respective interface to communicate to one another and to other parts of the system. The Examiner asserts that although Beckett does not disclose the exact arrangement or the same title of each of the sub-systems, as disclosed by the applicant, Beckett does disclose that multiple interfaces can be used with their respective objects **(Column 6 Lines 20 – 27)**. Each object communicates to one another through some interface. Moreover, Beckett also discloses that,

> "The Connection Editor 203 shows the status of connections between programs and allows end-users to create connections between programs **(Column 5 Lines 23 – 25)**.
>
> Thus, Interface Manager 410 only requires a reference to another components interface manager and the name of the connected interface property as the

minimum information to establish a connection between interface properties.

With this information, the information managers of each component can

automate data flow between the components without programming. One

ordinarily skilled in the art would know that this is just one of numerous ways that

a connection editor—or any program capable of querying data from class meta-

data, internal-storage, or external storage—could query available connection

points from a program **(Column 8 Lines 17 – 27)**."

Applicant's argument that Beckett does not teach defining interfaces and sub-

system is incorrect. The step of defining each of these components has obviously

already been done in order for Beckett to carry out the invention, i.e. the programming

of these components has already been done. Beckett teaches communication of these

components with one another and that one skilled in the art would know that there are

numerous methods of associating each of these devices depending on the client's

needs as well as the amount of resources available.

Conclusion

23.   **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any
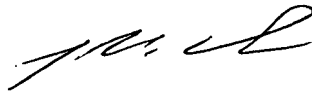
extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Gerardo Araque Jr. whose telephone number is

(571)272-3747. The examiner can normally be reached on Monday - Friday 8:30AM -

4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John Weiss can be reached on (571) 272-6812. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

GA
4/30/07

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